



## CLAIMS LISTING

Claims 1-111 (canceled).

**112.** (Currently Amended) A computer-implemented business method for actively and declaratively managing, implementing, and executing a first dynamic process incorporating a dynamic pattern of operations driven by real-world conditions causing at least a first behavioral pattern to emerge, said computer-implemented business method comprising:

(a) declaring and stating an objective ~~Objective~~ of said first dynamic process as a set of measurable Goals and Constraints;

(b) declaring and stating at least one objective ~~Objective~~ Rule Set having a plurality of Rules, said Rules in the said objective ~~Objective~~ Rule Set being defined to accomplish at least a part of said objective ~~Objective~~ by the combination of at least one subset thereof:

wherein the Rules in said objective ~~Objective~~ Rule Set may act in any order subject to the limitation that, for any specific Rule in said objective ~~Objective~~ Rule Set, that specific Rule's Condition and applicable Constraints must be satisfied before that specific Rule's Action may occur;

(c) delegating to at least one specific set of Actors consisting of at least one Actor: at least a first subordinate objective ~~Objective~~, subordinate to the objective ~~Objective~~, stating the first subordinate objective ~~Objective~~ as a subset of subordinate, measurable Goals and subordinate Constraints; a set of Rules for accomplishing said first subordinate objective ~~Objective~~; authority via at least one Rule stating authority for attaining the subordinate, measurable Goals of said first subordinate objective ~~Objective~~;

1 accountability via at least one Rule stating accountability for attaining the  
2 subordinate, measurable Goals of said first subordinate objective  
3 ~~Objective~~; and,  
4 responsibility via at least one Rule stating responsibility for attaining the  
5 subordinate, measurable Goals of said first subordinate objective  
6 ~~Objective~~ subject to the Constraints and subordinate Constraints;  
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8 (d) determining if at least one Rule's Condition is satisfied and if so triggering  
9 said Rule's Action;

10 wherein said Rule's Condition incorporates at least one Measurable value  
11 ~~Value~~ from at least one member of a set of sources; and,  
12 said set of sources comprises ~~comprise~~ a source internal to said first  
13 dynamic process, a source external to said first dynamic process, and a  
14 source in the real world;  
15

16 (e) modifying at least one Element of said dynamic process through the Action of  
17 at least a Rule whose Condition is triggered by at least one input from an event in  
18 the real world;  
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20 (f) defining any Actor as being at least one member of an Actor set comprising  
21 human agent, semi-automated agent, and automated agent;  
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23 (g) defining any Element as being one member of an Element set comprising a  
24 Goal, Rule, Rule Set, Condition, Action, Constraint, Measurable value ~~Value~~, and  
25 Delegation;  
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27 (h) defining each Rule so as to comprise a Condition that is satisfied when it  
28 evaluates to a specified and predetermined value and an Action that is triggered  
29 when the Condition is satisfied;  
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1 (i) determining the triggered Action of at least a first Rule and its relative order  
2 with respect to a second Rule's Action, and therefore the behavior of the dynamic  
3 process, at least partially by logical inference from Conditions and Constraints  
4 rather than said relative order being predetermined and required by human  
5 mandate;

6  
7 (j) executing automatically at least a subset of the dynamic pattern of operations  
8 that progresses towards said objective ~~Objective~~, defining said subset of the  
9 dynamic pattern of operations as comprising a plurality of operations, each  
10 operation therein being temporally contiguous to at least one other operation in  
11 said subset of the dynamic pattern of operations; and,

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13 (k) specifying a plurality of Elements and implementing each of the steps of  
14 declaring and stating, delegating, determining, and modifying, through a  
15 declarative and therefore non-procedural representation.

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18 113. (Previously Presented) A method as in Claim 112 further comprising iterating at  
19 least one of the steps of declaring and stating, delegating, determining, and modifying.

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22 114. (Currently Amended) A method as in Claim 112, further comprising the step of  
23 redeclaring and restating at least one Action of at least one Rule as a second dynamic  
24 process.

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27 115. (Previously Presented) A method as in Claim 112 wherein the dynamic process  
28 represents a business's operational flow, said operational flow being that business's  
29 fundamental business activity of producing goods and services.

1 116. (Previously Presented) A method as in Claim 112 further comprising adding at least  
2 one new Element to the dynamic process in response to at least one input.

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5 117. (Currently Amended) A method as in Claim 112 further comprising the step of using  
6 the measurable Goals and Measurable values ~~Values~~ to enable assessment of any member  
7 of a set of assessments, that set of assessments comprising risk of error, minimum  
8 contribution of any Rule to the Goal, maximum contribution of any Rule to the Goal, risk  
9 of deviation from the Goal due to the Action of any Rule, performance of at least one  
10 Actor, and relative efficiencies among any two Actors.

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13 118. (Previously Presented) A method as in Claim 112 further comprising using the  
14 deviation of Measurable values ~~Values~~ from measurable Goals for at least one member of  
15 a set comprising accounting control, regulatory control, and reporting without first  
16 requiring that the dynamic process terminate.

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19 119. (Previously Presented) A method as in Claim 112 wherein said method forms a  
20 business autopilot, which, once initiated, requires no human intervention to manage  
21 successful execution of said subset of the dynamic pattern of operations even when  
22 Actions and operations are implemented by human Actors.

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25 120. (Currently Amended) A method as in Claim 112, further comprising:  
26 including a set of Constraints consisting of at least one Constraint;  
27 including a first Rule Set consisting of at least a first contained ~~Contained~~ Rule;  
28 including a second Rule Set consisting of at least a second contained ~~Contained~~  
29 Rule; and,  
30 including a set of ordering Rules consisting of at least one ordering Rule;

1 wherein the relative order by which each first contained ~~Contained~~ Rule in the first Rule  
2 Set and at least a second contained ~~Contained~~ Rule in the second Rule Set are satisfied is  
3 determined according to at least one member of a set comprising the set of Constraints,  
4 implicit Rule precedence making the Action of each Contained Rule in the first Rule Set  
5 satisfy a Condition of the second Contained Rule, the set of Constraints, and the set of  
6 ordering Rules.

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9 121. (Currently Amended) A method as in Claim 112, further comprising declaring and  
10 stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is  
11 subordinate to the first Rule Set, and wherein the second Rule Set inherits from the first  
12 Rule Set at least one Condition of a Rule in the first Rule Set as a Constraint on the  
13 second Rule Set and at least one Action of a Rule in the first Rule Set as a Goal of the  
14 second Rule Set.

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17 122. (Currently Amended) A method as in Claim 112, further comprising declaring and  
18 stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is  
19 subordinate to the first Rule Set, and wherein at least one change in Constraints by Action  
20 of at least one Rule of the second Rule Set is passed to the first Rule Set.

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23 123. (Currently Amended) A method as in Claim 112, wherein said declarative and  
24 therefore non-procedural representation is at least one member of a representation set  
25 comprising symbolic logic and declarative computer language.

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28 124. (Currently Amended) A method as in Claim 112, wherein for at least one Rule:  
29 the Condition of said Rule detects a difference between at least one Element of  
30 said dynamic process and a Measurable value ~~Value~~ from at least one input, and  
31 the Action of said Rule has an effect ~~affect~~ on at least that one Element of said

1 first dynamic process by modifying that one Element to do at least one member of  
2 a response set comprising accommodate the Measurable ~~value~~ Value, and adjust  
3 performance of said dynamic process as indicated by the Measurable ~~value~~ Value.  
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6 125. (Currently Amended) A method as in Claim 112 further comprising analyzing the  
7 efficiency of a business operation by measuring the deviation of Measurable values  
8 ~~Values~~ from measurable Goals.  
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11 126. (Previously Presented) A method as in Claim 112 further comprising:  
12 incorporating a set of resolving Constraints comprising at least one member of a  
13 resolving set comprising a resolving Constraint and a resolving Rule; and,  
14 incorporating at least one ambiguous Rule;  
15 wherein said set of resolving Constraints determines whether the ambiguous Rule's  
16 Action will be triggered when the evaluation of the ambiguous Rule's Condition is not a  
17 value that has been otherwise determined to cause the ambiguous Rule's action to trigger.  
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20 127. (Previously Presented) A method as in Claim 112 wherein, in the step of delegating,  
21 at least one member of what is delegated to one specific Actor is a consequence of the  
22 Rules, Constraints, and measurements associated with an Actor.  
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25 128. (Previously Presented) A method as in Claim 112 wherein at least one Element  
26 maintains consistency among any combination of authority to act, responsibility,  
27 response to operational failure, and accountability.  
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30 129. (Previously Presented) A method as in Claim 112 wherein at least one Rule makes  
31 explicit why Actions are undertaken and what is to be achieved.

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3 130. (Currently Amended) A method as in Claim 112 further comprising replacing a first  
4 unrefined ~~Unrefined~~ Rule by a set of refinement Rules that include at least the Action of  
5 the first unrefined ~~Unrefined~~ Rule without the set of refinement Rules including the first  
6 unrefined ~~Unrefined~~ Rule.

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9 131. (Currently Amended) A method as in Claim 130 further comprising:  
10 incorporating a first risk of error associated with the first unrefined ~~Unrefined~~  
11 Rule;  
12 incorporating a second risk of error associated with a second refinement  
13 ~~Refinement~~ Rule belonging to the set of refinement Rules;  
14 wherein the second refinement ~~Refinement~~ Rule has the least risk of error of any  
15 refinement ~~Refinement~~ Rule in the set of refinement Rules; and wherein the second risk  
16 of error is not greater than the first risk of error.

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19 132. (Currently Amended) A method as in Claim 112 wherein the step of declaring and  
20 stating at least one objective ~~Objective~~ Rule Set comprises stating at least a first objective  
21 ~~Objective~~ Rule Set and a second objective ~~Objective~~ Rule Set, wherein the first objective  
22 ~~Objective~~ Rule Set operates at a first level of the dynamic process and the second  
23 objective ~~Objective~~ Rule Set operates at a second level of the dynamic process.

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26 133. (Currently Amended) A method as in Claim 132, wherein said first and second  
27 levels are indistinct and said first objective ~~Objective~~ Rule Set and said second objective  
28 ~~Objective~~ Rule Set form a peer to peer organization.

1 134. (Currently Amended) A method as in Claim 132, wherein said first and second  
2 levels are distinct and said first objective ~~Objective~~ Rule Set and said second objective  
3 ~~Objective~~ Rule Set form a hierarchical organization.

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6 135. (Currently Amended) A method as in Claim 112, further comprising declaring and  
7 stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is  
8 subordinate to the first Rule Set, and wherein the first Rule Set further receives, from the  
9 second Rule Set, the result of an Action by a Rule of the second Rule Set as satisfaction  
10 of at least one Condition of a Rule of the first Rule Set.

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13 136. (Currently Amended) A method as in Claim 135, wherein the first Rule Set further  
14 comprises at least a superior objective ~~Objective~~ and wherein the Action of the second  
15 Rule Set conveys information to the first Rule Set sufficient for the first Rule Set to alter  
16 at least the superior objective ~~Objective~~ when the superior objective ~~Objective~~ does not  
17 conform to a Measurable value ~~Value~~ from the real world.

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20 137. (Currently Amended) A method as in Claim 112, further comprising:  
21 including at least a second Rule Set comprising a set of Rules that are connected  
22 and have no Rule for which both its Condition is not satisfied by some  
23 combination of Actions and events, and its Action does not eventually in  
24 combination with the Actions of other Rules in the set satisfy the Conditions of at  
25 least one Rule;  
26 including at least a first Satisfied Rule in said second Rule Set whose Condition  
27 has been satisfied at least once;  
28 and,  
29 further including a set of pairs comprising an identification of at least one  
30 satisfied ~~Satisfied~~ Rule and a time said satisfied ~~Satisfied~~ Rule was satisfied, said  
31 set of pairs being partially ordered and constituting a first subordinate process.



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3 138. (Previously Presented) A method as in Claim 137 wherein the second Rule Set  
4 comprises the entire set of satisfied Rules of the first dynamic process and no explicit  
5 ordering of the Rules in the second Rule Set is provided in defining said first dynamic  
6 process.

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9 139. (Previously Presented) A method as in Claim 112 wherein said set of Rules includes  
10 at least one anticipatory Rule, the satisfaction of the Condition portion of said  
11 anticipatory Rule being merely a possibility and neither a prediction nor a mandate, when  
12 said anticipatory Rule is initially stated.

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15 140. (Currently Amended) A method as in Claim 139 wherein said Condition of said  
16 anticipatory Rule incorporates at least one conjunct which, at the time of creation of the  
17 Rule, incorporates a Measurable value ~~Value~~ that is contrary to the known and projected  
18 state of the real world.

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21 141. (Previously Presented) A method as in Claim 112 further comprising:  
22 storing said declarative and therefore non-procedural representation in a static and  
23 stable form; and,  
24 preserving human knowledge of said dynamic process.

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27 142. (Currently Amended) A method as in Claim 141 further comprising the steps of  
28 organizing in a first business entity said declarative and therefore non-procedural  
29 representation of said dynamic process for conveyance to a second business  
30 entity; and,

1 conveying said declarative and therefore non-procedural representation from the  
2 first business entity to the second business entity.  
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4 143. (Previously Presented) A method as in Claim 141 wherein said declarative and  
5 therefore non-procedural representation of said dynamic process stores knowledge of at  
6 least one member of a set comprising organizational management, at least one model of  
7 business organization, at least one operational process, and at least one strategic process.  
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10 144. (Currently Amended) A method as in Claim 141 further comprising the steps of:  
11 retrieving at least a portion of said declarative and therefore non-procedural  
12 representation; and,  
13 instantiating said portion of said declarative and therefore non-procedural  
14 representation as a second dynamic process in a business.  
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16 145. (Currently Amended) A method as in Claim 112 wherein the step of delegating to at  
17 least one specific Actor further comprises:

18 a first Actor at a first level stating a plurality of business Rules comprising  
19 possible Conditions, each Condition comprising at least one member of a set  
20 comprising factual circumstance, market situation, business event, and  
21 Measurable ~~value~~ Value, and joined with at least one corresponding desired  
22 Action matching a first measurable Goal;  
23 a second Actor at a second level identifying a Goal-achieving set of business  
24 Rules enabling said first measurable Goal to be attained;  
25 and;  
26 said second Actor communicating at least a first result of the Goal-achieving set  
27 of Rules to said first Actor.  
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30 146. (Previously Presented) A method as in Claim 145 wherein said plurality of business  
31 Rules are responsive to a plurality of events, and wherein the actual operation of the

1 plurality of business Rules are combined to form a business process independent of any  
2 pre-existing definition of the business process.

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5 147. (Previously Presented) A method as in Claim 145 wherein said measurable Goal is  
6 expressed as at least one Goal Rule comprising a Goal Condition which identifies said  
7 measurable Goal and a Goal Action which specifies any combination of the members of a  
8 measure set consisting of a measure of success, a measurement Constraint, and a measure  
9 of failure.

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12 148. (Currently Amended) A method as in Claim 145 wherein the first Actor further:  
13 identifies the maximum acceptable risk associated with each risky ~~Risky~~ Rule in a  
14 first risky ~~Risky~~ Rule Set at the second level;  
15 determines the risk associated with each risky ~~Risky~~ Rule; and,  
16 for each risky ~~Risky~~ Rule in the first risky ~~Risky~~ Rule Set with risk that is not  
17 below the maximum acceptable risk associated with said risky ~~Risky~~ Rule, further  
18 refines Actions of each such risky ~~Risky~~ Rule by delegating its Actions as a Goal  
19 to a third Rule Set, and the third Rule Set is at a third level.

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22 149. (Previously Presented) A method as in Claim 145 wherein the step of  
23 communicating further comprises stating at least one Rule having at least one Condition  
24 responsive to said desired Action and having an Action that performs said step of  
25 communicating.

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28 150. (Previously Presented) A method as in Claim 145 wherein said first result is a  
29 qualitative measure of at least one member of a set of measurable properties comprising  
30 performance and Goal completion.

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2 151. (Previously Presented). A method as in Claim 145 wherein said first Actor effects  
3 Delegation to at least one subordinate Actor any combination of any number of the  
4 members of a Delegation set consisting of responsibility, accountability, and authority  
5 that belong to the first Actor.  
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8 152. (Previously Presented) A method as in Claim 151 wherein said first Actor further  
9 effects Delegation by a Delegation Rule comprising at least one Delegation Condition  
10 which tests the appropriateness of achieving said desired Action and at least one Action  
11 which identifies at least one Actor as recipient of said Delegation.  
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14 153. (Previously Presented) A method as in Claim 152 wherein the Delegation Rule  
15 delegates authority by at least one member of a set comprising establishing at least one  
16 Rule Set, modifying at least one Rule Set, and deleting at least one Rule Set.  
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19 154. (Previously Presented) A method as in Claim 151 wherein the first Actor delegates  
20 authority by at least one member of a set comprising establishing at least one Rule Set,  
21 modifying at least one Rule Set, and deleting at least one Rule Set.  
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24 155. (Previously Presented) A method as in Claim 151 wherein said Delegation of  
25 accountability is accomplished by enabling at least one member of a set, comprising said  
26 second Actor and said second Rule, to alter at least one member of a set comprising  
27 measurement of predefined success and measurement process.  
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30 156. (Previously Presented) A method as in Claim 145 further comprising identifying a  
31 second Actor according to a Goal stated as a set of requirements Rules and a set of

1 requirements Constraints, and according to measurements stated as a set of capabilities  
2 Rules.

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5 157. (Currently Amended) A method as in Claim 156, wherein each requirement Rule in  
6 said set of requirements Rules comprises both:

7 at least one requirements Condition identifying at least one member of a set  
8 comprising the desired Action and at least one capability required to accomplish  
9 said desired Action; and,

10 at least one requirements Action identifying at least one member of a set  
11 comprising at least one capability of said second Actor and said desired Action.

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14 158. (Currently Amended) A method as in Claim 156, wherein each capability Rule in  
15 said set of capabilities Rules consists of at least one member of a set comprising:

16 at least one capabilities Condition identifying at least one Actor and at least one  
17 capabilities Action identifying at least one capability of said Actor; and,  
18 at least one capabilities Condition identifying at least one capability, and at least  
19 one capabilities Action identifying at least one Actor having said capability.

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22 159. (Currently Amended) A method as in Claim 156, further comprising a step of  
23 matching said second Actor with said desired Goal by at least one criteria for comparing  
24 at least one requirements Rule and at least one capabilities Rule.

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27 160. (Previously Presented) A method as in Claim 159 wherein said criteria is established  
28 using at least one member of a match set comprising a best fit match algorithm, a fuzzy  
29 match algorithm, an approximate match algorithm, and an exact match algorithm.

1 161. (Currently Amended) A method as in Claim 112 wherein the step of modifying at  
2 least one Element through the Action of at least a Rule whose Condition is triggered by at  
3 least one input from at least one real-world event; further comprises:

4  
5 defining a first adaptation process comprising at least one adaptation Rule;

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7 constructing the adaptation Rule from a third ~~Third~~ Rule and requiring in the  
8 adaptation Rule's Action at least one member of a set of Actions comprising  
9 Element creation, self-modification, feedback, contradiction resolution, conflict  
10 resolution, correction for failure, and decision making, each of which is not  
11 already any previously existing Rule's Action;

12  
13 satisfying the Condition of the adaptation Rule through an event; and,

14  
15 affecting at least one Element through the Action of the adaptation Rule.  
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18 162. (Previously Presented) A method as in Claim 161 wherein said first adaptation  
19 process is independent of any external agent.  
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22 163. (Previously Presented) A method as in Claim 161 further comprising monitoring  
23 performance by and against specific metrics;

24 wherein the Condition of the adaptive Rule is satisfied by performance deviations  
25 from the specific metrics; and the Action of the adaptive Rule is representative of  
26 at least one member of a set comprising business events, business measures,  
27 business decisions, business Rules, and business processes.  
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30 164. (Currently Amended) A method as in Claim 161 further comprising:

1 modifying, through the Action of at least one adaptation Rule, at least a first  
2 changed ~~Changed~~ Rule instantiated at a first level;  
3 effectively modifying through the first changed ~~Changed~~ Rule instantiated at a  
4 first level at least a first Goal of the first level; and  
5 permitting but not requiring intervention from a higher level.  
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8 165. (Currently Amended) A method as in Claim 161 further comprising:  
9 continuously monitoring for at least one occurrence of the at least one real-world  
10 event; and,  
11 continuously modifying the Elements of the dynamic process, in response to the  
12 occurrence of the at least one real-world event.  
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15 166. (Currently Amended) A method as in Claim 161 further comprising:  
16 incorporating at least one member of a set of dynamic processes comprising  
17 creation, deletion, modification, and correction of both objectives ~~Objectives~~ and  
18 Elements;  
19 linking the adaptation process to at least one member of the set of dynamic  
20 processes; and,  
21 modifying the objectives ~~Objectives~~ and Elements by the adaptation process  
22 according to at least one member of a set comprising Conditions and Constraints.  
23  
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25 167. (Previously Presented) A method as in Claim 161 wherein the step of modifying at  
26 least one Element comprises:  
27 detecting a contradiction;  
28 changing at least one Rule Set, further comprising:  
29 identifying at least a first and second conflicting Rule; and,  
30 resolving the contradiction by at least one member of a set comprising adding a  
31 new Constraint, altering a existing Constraint, adding a new Rule, altering at least

one of the first and second conflicting Rules, and eliminating at least one of the first and second conflicting Rules; and, logically differentiating the Actions of the first and second conflicting Rules.

168. (Previously Presented) A method as in Claim 161 further comprising reducing at least one operational latency in the dynamic process through the Action of the adaptation Rule.

169. (Previously Presented) A method as in Claim 161 wherein the adaptation Rule's Condition is satisfied when a first contradiction occurs, and the adaptation Rule's Action modifies at least one Element.

170. (Previously Presented) A method as in Claim 169 wherein the first contradiction comprises at least first and second logically-conflicting Elements, and the adaptation Rule's Action selects one of the conflicting Elements through at least one member of a set of selection techniques comprising random selection, deterministic selection, and arbitrary selection, and modifies the selected Element.

171. (Previously Presented) A method as in Claim 170 wherein the modification of the selected Element prevents simultaneous application of the first and second logically-conflicting Elements.

172. (Previously Presented) A method as in Claim 169 wherein the first contradiction comprises at least first and second logically-conflicting Elements, and the adaptation Rule's Action alters at least one of the first and second logically-conflicting Elements and creates a differentiation between the first conflicting Rule's Condition and the second



1 conflicting Rule's Condition, said differentiation preventing the first conflicting Rule's  
2 Condition and the second conflicting Rule's Condition from being satisfied by the same  
3 set of measurable inputs and Elements.

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6 173. (Previously Presented) A method as in Claim 172 wherein the adaptation Rule's  
7 Action alters at least one of the first and second logically-conflicting Elements, modifies  
8 the first logically-conflicting Element to include a Constraint not present in the second  
9 logically-conflicting Element, and prevents the possibility of the first and second  
10 logically-conflicting Elements from simultaneously occurring.

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13 174. (Previously Presented) A method as in Claim 161 wherein the step of constructing  
14 the adaptation Rule further comprises:  
15       stating the adaptation Rule's Condition to be satisfied when a first failure occurs;  
16       and,  
17       stating the adaptation Rule's Action to both incorporate modification of at least  
18       one Element and effect a correction for the first failure.

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21 175. (Previously Presented) A method as in Claim 174 wherein the first failure comprises  
22 not attaining a first Goal and the modification of at least one Element enables the first  
23 Goal to be attained by correcting at least one member of a set comprising at least one  
24 cause of the first failure and at least one effect of the first failure.

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27 176. (Previously Presented) A method as in Claim 174 wherein the modification of at  
28 least one Element includes at least one member of a set of steps comprising creating,  
29 modifying, and deleting a second adaptation Rule.

1 177. (Currently Amended) A method as in Claim 174 wherein the first failure comprises  
2 not detecting a Measurable value ~~Value~~ and the modification of at least one Element  
3 comprises at least one member of a set comprising creating the Element, modifying the  
4 Element, and deleting the Element.

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7 178. (Currently Amended) A method as in Claim 174, wherein a second failure  
8 comprises not attaining a second Goal and the modification of at least one Element  
9 includes the step of redeclaring and restating at least one Action of at least one Rule as a  
10 second dynamic process.

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13 179. (Currently Amended d) A method as in Claim 174, wherein the first failure  
14 comprises not attaining a first Goal and the modification of at least one Element enables  
15 said first Goal to be attained by correcting at least one member of a failure set comprising  
16 at least a first cause of the first failure and at least a first effect of the first failure.

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19 180. (Currently Amended) A method as in Claim 174 wherein the adaptation Rule's  
20 Action modifies at least a member Rule of the objective ~~Objective~~ Rule Set and, when the  
21 member Rule's Condition is satisfied, the member Rule's Action modifies, without  
22 human intervention, at least a first member of the set of measurable Goals.

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25 181. (Currently Amended) A method as in Claim 174 wherein the adaptation Rule's  
26 Action modifies at least a first Adaptable Rule of a set of Rules and, when the first  
27 adaptable ~~Adaptable~~ Rule's Condition is satisfied, the first adaptable ~~Adaptable~~ Rule's  
28 Action modifies, without human intervention and without modification of any Rule of the  
29 objective ~~Objective~~ Rule Set, at least a first member of a set comprising subordinate  
30 Goals and measurable Goals.

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2 182. (Currently Amended) A method as in Claim 174, wherein the step of declaring and  
3 stating at least one objective ~~Objective~~ Rule Set further comprises:

4       stating at least a first objective ~~Objective~~ Rule Set and a second objective  
5 ~~Objective~~ Rule Set, wherein the first objective ~~Objective~~ Rule Set operates at a  
6 first level of the dynamic process and the second objective ~~Objective~~ Rule Set  
7 operates at a second level of the dynamic process;  
8       and wherein the adaptation Rule's Condition effectively defines the need for a  
9 closed-loop effect in said first level and the adaptation Rule's Action changes at  
10 least one Element in said second level.

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13 183. (Currently Amended) A method as in Claim 174, wherein the step of modifying at  
14 least one Element comprises modifying at least one member of a set comprising Goal,  
15 Rule, Rule Set, Condition, Action, Constraint, Measurable value ~~Value~~, and Delegation.

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18 184. (Currently Amended) A method as in Claim 174 wherein the step of declaring and  
19 stating at least one objective ~~Objective~~ Rule Set comprises stating at least a first objective  
20 ~~Objective~~ Rule Set and a second objective ~~Objective~~ Rule Set:

21       wherein the first objective ~~Objective~~ Rule Set operates at a first level of the  
22 dynamic process and the second objective ~~Objective~~ Rule Set operates at a second  
23 level of the dynamic process; and,  
24       wherein a first Goal is associated with the first level and a second Goal is  
25 associated with the second level; and the first Goal and the second Goal overlap  
26 by having a sub-goal ~~subgoal~~ in common.

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29 185. (Previously Presented) A method as in Claim 184 further comprising modifying the  
30 overlap to avoid at least one member of a set comprising confrontation problems and  
31 race-condition problems.

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3 186. (Currently Amended) A method as in Claim 112, wherein the step of declaring and  
4 stating at least one objective ~~Objective~~ Rule Set comprises stating at least a first objective  
5 ~~Objective~~ Rule Set and a second objective ~~Objective~~ Rule Set, wherein the first objective  
6 ~~Objective~~ Rule Set operates at a first level of the dynamic process and the second  
7 objective ~~Objective~~ Rule Set operates at a second level of the dynamic process, and  
8 further comprising an organizing Rule comprising:  
9 an organizing Condition; and  
10 an organizing Action;  
11 and the organizing Condition is satisfied by the Condition of at least one Rule in said first  
12 objective ~~Objective~~ Rule Set and the organizing Action comprises at least the second  
13 objective ~~Objective~~ Rule Set.  
14  
15

16 187. (Previously Presented) A method as in Claim 186 wherein said organizing Action  
17 delegates at least one member of the set comprising a Rule Set, authority, accountability,  
18 and responsibility, and said organizing Rule creates a hierarchical Delegation.  
19  
20

21 188. (Currently Amended) A method as in Claim 112 wherein the step of declaring and  
22 stating at least one objective ~~Objective~~ Rule Set further comprises stating at least a first  
23 objective ~~Objective~~ Rule Set and a second objective ~~Objective~~ Rule Set, wherein the first  
24 objective ~~Objective~~ Rule Set operates at a first level of the dynamic process and the  
25 second objective ~~Objective~~ Rule Set operates at a second level of the dynamic process,  
26 and wherein the response to at least one Action of at least one Rule in the first objective  
27 ~~Objective~~ Rule Set becomes at least one Condition of at least one Rule in the second  
28 objective ~~Objective~~ Rule Set.  
29  
30

1 189. (Previously Presented) A method as in Claim 188 wherein the first level and the  
2 second level are identical, and at least one Rule in the first Rule Set receives at least one  
3 response of at least one Rule in the second Rule Set as its Condition.

4  
5  
6 190. (Previously Presented) A method as in Claim 141 further comprising:  
7 analyzing the business operations represented in said declarative and therefore  
8 non-procedural representation; and,  
9 refining and tuning at least one member of a set comprising Decision, Business  
10 Rule, and Business Process.

11  
12 191. (Canceled)

13  
14 192. (Currently Amended) An apparatus for actively and declaratively managing,  
15 implementing, and executing a first dynamic process incorporating a dynamic pattern of  
16 operations driven by real-world Conditions, through which at least a first behavioral  
17 pattern emerges, comprising:

18  
19 static memory containing:

20 a set of measurable Goals and Constraints of said first dynamic process;

21 at least one Rule Set having a plurality of Rules:

22 wherein the Rules in said Rule Set may act in any order subject to

23 the limitation that, for any specific Rule in said Rule Set, that

24 specific Rule's Condition and applicable Constraints must be

25 satisfied before that specific Rule's Action may occur;

26 a declarative and therefore non-procedural representation of each Element,

27 and any of a set of steps of declaring, stating, delegating, determining, and

28 modifying;

29  
30 means for accepting at least one input from the real world, said input comprising a

31 Measurable value ~~Value~~;

means for comparing any input against the Condition of all Elements contained in the static memory;

means for delegating to at least one specific set of Actors consisting of at least one Actor:

at least a first subordinate objective ~~Objective~~, subordinate to the objective ~~Objective~~, stating the first subordinate objective ~~Objective~~ as a subset of subordinate, measurable Goals and subordinate Constraints;  
a set of Rules for accomplishing said first subordinate objective ~~Objective~~;  
authority via at least one Rule stating authority for attaining the subordinate, measurable Goals of said first subordinate objective ~~Objective~~;  
accountability via at least one Rule stating accountability for attaining the subordinate, measurable Goals of said first subordinate objective ~~Objective~~; and,  
responsibility via at least one Rule stating responsibility for attaining the subordinate, measurable Goals of said first subordinate objective ~~Objective~~ subject to the Constraints and subordinate Constraints;

means for determining if at least one Rule's Condition is satisfied and if so subsequently triggering said Rule's Action wherein said Rule's Condition incorporates at least one Measurable value ~~Value~~ from at least one member of a set of sources and said set of sources comprises ~~comprise~~ a source internal to said first dynamic process, a source external to said first dynamic process, and a source in the real world;

means for modifying at least one Element through the Action of at least a Rule whose Condition is triggered by at least one input from an event in the real world;

1 means for executing automatically at least a subset of the dynamic pattern of  
2 operations, defining said subset of the dynamic pattern of operations as  
3 comprising a plurality of operations, each operation therein being temporally  
4 contiguous to at least one other operation in said subset of the dynamic pattern of  
5 operations; ~~and,~~

6  
7 means for specifying a plurality of Elements and implementing each of the steps  
8 of declaring and stating, delegating, determining, and modifying, through a  
9 declarative and therefore non-procedural representation;

10  
11 means for using said set of steps of declaring, stating, delegating, determining,  
12 and modifying, to further the attainment of a Goal of said first dynamic process  
13 independent of human action; and,

14  
15 means for iterating through the steps of declaring, stating, delegating,  
16 determining, and modifying.